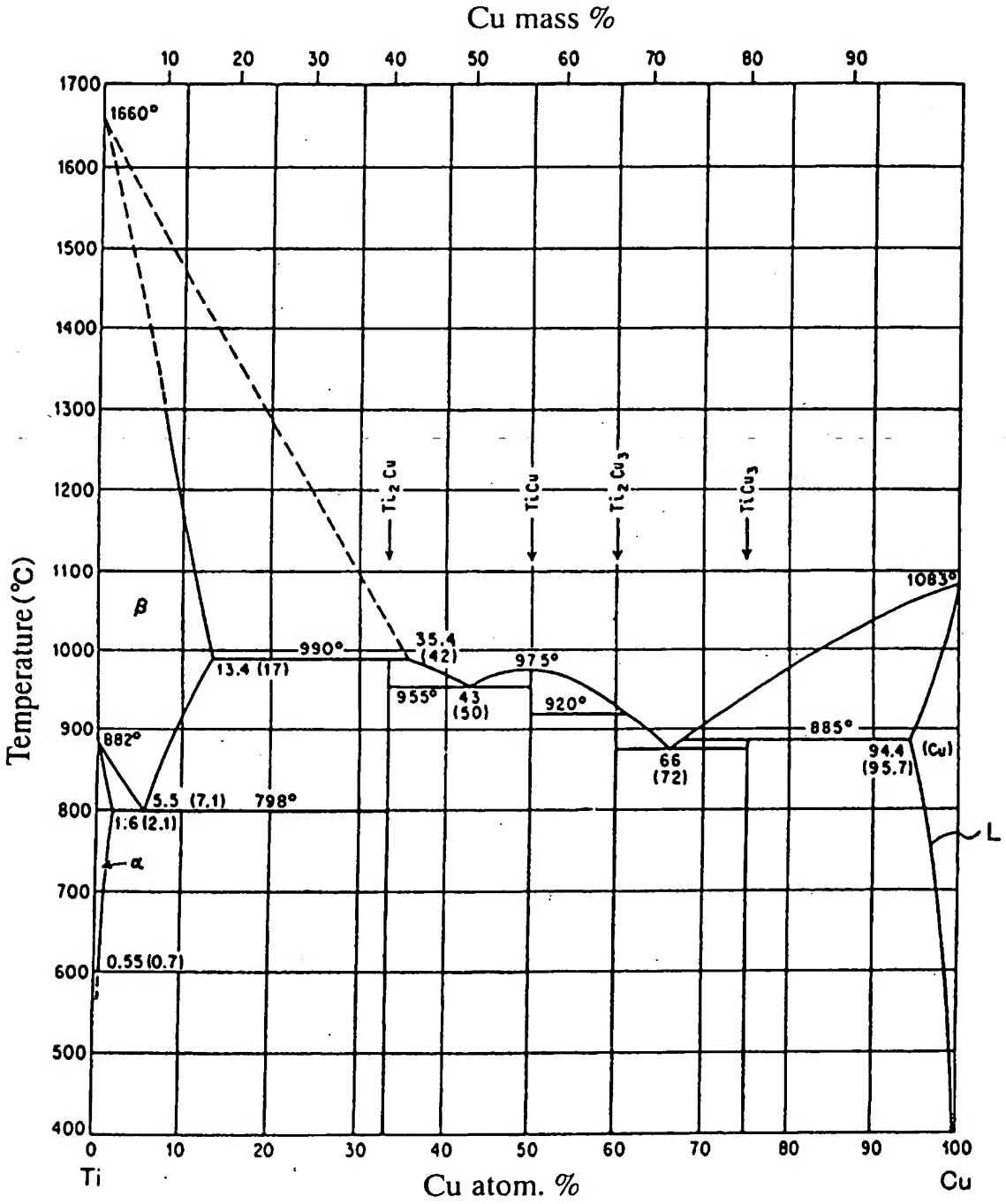
Fig. 1


Cu mass %
10
20
30
40
50
60
70
80
90
1700
1600
1500
1400
1300
1200
1100
1000
900
800
700
600
500
400
Temperature (°C)
1660°
β
990°
13.4 (17)
35.4
(42)
955°
43
(50)
975°
920°
1083°
885°
882°
5.5 (7.1)
798°
1.6 (2.1)
α
0.55 (0.7)
66
(72)
94.4
(95.7)
(Cu)
L
Ti2Cu
TiCu
Ti2Cu3
TiCu3
0
10
20
30
40
50
60
70
80
90
100
Ti
Cu atom. %
Cu